

**Abstract**

A device for abrasive machining of surfaces of components, comprising a tool (1) having an inlet (11) and an outlet (12); a supply unit for conveying to the inlet (11) a liquid in which abrasive agents are dissolved and which emerges from the outlet (12); and a positioning means which guides the tool across a surface to be machined and simultaneously positions the tool in such manner that the outlet faces the surface to be machined, an area of an annular gap (3) defined by boundary walls (13) of the outlet (12) and the surface (2) to be machined being smaller than a cross-sectional area of the inlet (11).